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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,325	12/08/2006	Clemens Ottermann	2133.122USU	2196
	7590 10/11/2007	EXAMINER		
Charles N. J. Ruggiero Ohlandt, Greeley, Ruggiero & Perle, L.L.P.			GRAMLING, SEAN P	
One Landmark Square, 10th Floor Stamford, CT 06901-2682			ART UNIT	PAPER NUMBER
Stamtora, C1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2875	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<i>-</i>	Application No.	Applicant(s)				
	Application No.					
Office Action Summary	10/565,325	OTTERMANN ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication app	Sean P. Gramling	2875				
Period for Reply	ears on the cover sheet with the	borrespondenee address ==				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tile will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 08 De	ecember 2006.					
,-	<i>,</i>					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 33-67 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 33-67 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers	•					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 20 January 2006 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a) \boxtimes accepted or b) \square objected drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/26/06.	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 33, 35-42, 45-48, 58-61 are rejected under 35 U.S.C. 102(b) as being anticipated by Budd et al (US 2001/0030320).
- 3. Regarding claim 33, Budd discloses a luminous element with a light-guiding device in which light is guided by reflection, wherein the light-guiding device comprises at least one light-scattering area (upper surface of light guiding plate 32) to which light-scattering structures can be applied, and at least one light entry surface (side surface), and at least one OLED 10 coupled to the light entry surface, characterized in that the OLED comprises a transparent substrate 14 which is coupled to a light entry surface of the light-guiding device, the light-guiding device comprising a light guiding plate 32 and the glass substrate 14 being plate-shapes and being coupled with the aid of an edge surface to the light-guiding device (see Figures 1a, 1b, and 2, and paragraphs [0025], [0026], and [0041]).
- 4. Regarding claim 35, the light-guiding device in Budd comprises transparent material 14 (see paragraph [0025] and Figures 1a and 2).
- 5. Regarding claim 36, the transparent material 14 in Budd is comprised of glass (see paragraph [0025]).

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6. Regarding claim 37, the light entry surface in Budd is arranged at an edge surface of the light guiding plate 32 (see Figure 2).

- 7. Regarding claim 38, the light entry surface in Budd adjoins an edge surface of the plate 32 (see Figure 2).
- 8. Regarding claim 39, the light guiding device in Budd has an elongated shape (see Figure 2).
- 9. Regarding claim 40, the light entry surface in Budd comprises at least one end face (see Figure 2).
- 10. Regarding claim 41, the light entry surface in Budd comprises at least one face at one of the ends of the light-guiding plate (see Figure 2).
- 11. Regarding claim 42, the light entry surface in Budd is arranged on at least one side of the light guiding plate (see Figure 2).
- 12. Regarding claim 45, the light entry area in Budd comprises the light entry surface (see Figure 2).
- 13. Regarding claim 46, the light entry area in Budd comprises the OLED 10 (see Figure 2).
- 14. Regarding claim 47, the OLED in Budd is of strip-shaped form (see Figures 1a and 3).
- 15. Regarding claim 48, the OLED in Budd has contact surfaces which extend along the longitudinal direction of the OLED (see Figures 1a and 3).
- 16. Regarding claim 58, the luminous element in Budd is characterized by a number of OLEDs 10 coupled to light entry surfaces (see Figure 3).

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17. Regarding claim 59, the luminous element in Budd is characterized in that the several OLEDs 10 emit light of different colors (see Figure 3).

- 18. Regarding claim 60, Budd discloses an OLED that emits white light (se paragraph [0006]).
- 19. Regarding claim 61, the light-scattering area in Budd has a light exit surface (upper surface of light guiding device 32) which is larger than the light entry surface of the light guiding device 32 (see Figure 2).

Claim Rejections - 35 USC § 103

- 20. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 21. Claims 50-51 and 65-66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Budd as applied to claim 33 above.
- 22. Regarding claims 50 and 51, the light entry surface of the light-guiding device 32 in Budd is straight and arranged perpendicular to the light guidance direction of the OLED's 10, rather than curved and arranged obliquely to the light guidance direction. However, lacking any criticality, changing the form or shape of prior art parts does not make the claimed invention patentable over that prior art (In re Dailey, 149 USPQ 471).
- 23. Regarding claims 65 and 66, the light guiding device 32 in Budd is illustrated as a light guide plate and does have an annularly bent shape or a cylindrical, semicylindrical,

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tubular, conical or prismatic shape. However, lacking any criticality, changing the form or shape of prior art parts does not make the claimed invention patentable over that prior art (In re Dailey, 149 USPQ 471).

- 24. Claims 34, 52-57, and 67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Budd as applied to claim 33 above, and further in view of Ohe (US 5,550,676).
- 25. Regarding claims 34, 52-54 and 56-57, Budd does not specifically disclose that the light-scattering area (the upper surface of the light-guiding device 32) have a raised pyramid light-scattering structure (optical grating) with a roughened surface wherein the roughness increases along the light guidance direction. However, such light-guiding devices with these type of light-scattering structures are well-known in the art and are taught in Ohe (see Ohe, Figures 1b, 3, 5a-5e, and 6b). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a pyramid light-scattering structure with progressively roughened surfaces along the upper surface of the light-guiding device 32 in Budd as taught by Ohe in order to make the luminance of the light through the light emitting surface of the lighting device 32 uniform over the entire surface thereof (see Ohe, column 5, lines 43-46).
- 26. Regarding claim 67, Budd discloses a luminous element with a light-guiding device in which light is guided by reflection, wherein the light-guiding device comprises at least one light-scattering area (upper surface of light guiding plate 32), and at least one light entry surface (side surface), and at least one OLED 10 coupled to the light entry surface, characterized in that the light-guiding device has a light exit surface

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(upper surface of light guiding plate) which comprises at least one edge surface of a light guiding plate, and the light entry surface (side surface of 32) is arranged on at least one side of the light guiding plate 32 (see Figures 1a, 1b, and 2, and paragraphs [0025], [0026], and [0041]). Budd does not specifically disclose that the light-scattering area (the upper surface of the light-guiding device 32) have a light-scattering structure. However, such light-guiding devices with these type of light-scattering structures are well-known in the art and are taught in Ohe (see Ohe, Figures 1b, 3, 5a-5e, and 6b). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a light-scattering structure along the upper surface of the light-guiding device 32 in Budd as taught by Ohe in order to make the luminance of the light through the light emitting surface of the lighting device 32 uniform over the entire surface thereof (see Ohe, column 5, lines 43-46).

- 27. Claims 43 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Budd as applied to claim 33 above, and further in view of Weaver et al (US 2003/0127973).
- 28. Regarding claims 43 and 44, Budd does not specifically teach that the glass substrate 14 be flexible polymer. However, flexible polymer substrates in OLED's are well-known in the art and are taught in Weaver (see paragraph [0009]). It would have been obvious to one of ordinary skill in the use flexible polymer substrates in the OLED's 10 in Budd as taught by Weaver in order to allow for substrate to properly conform to the OLED assembly and the light guide plate.

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29. Claims 49 and 62-64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Budd as applied to claim 33 above, and further in view of Duggal (US 6,777,871).

30. Regarding claims 49 and 62-64, Budd does specifically teach that the substrates 14 of the OLED's 10 be coupled up against the light entry surface of the light guiding device 32 with a coupling element such as a transparent bonded joint of the same refractive power as the light-guiding device. However, the use of transparent adhesive of similar index of refractions to secure OLED's substrates to devices is well-known in the art of OLED's and is taught in Duggal (see column 6, lines 31-45). It would have been obvious to one of ordinary skill in the art at the time the invention was made to couple the OLED's to the entry surface of the light guiding device 32 with a transparent adhesive having a similar index of refraction as the device 32 so as to secure the OLED's to the device without altering the direction and path of the entering light.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean P. Gramling whose telephone number is (571) 272-9082. The examiner can normally be reached on MONDAY-FRIDAY 7:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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5.6.6.

Sean P Gramling

Examiner

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Supervisory Patent Examiner

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